AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

What is claimed is:

1. (Original) A compound selected from the group represented by Formula I:

Formula I

wherein:

T and T' are independently a covalent bond or optionally substituted lower alkylene;

R₁ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl;

R₂ and R_{2'} are independently chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl; or R₂ and R₂ taken together form an optionally substituted 3-to 7-membered ring;

 R_3 is chosen from hydrogen, optionally substituted alkyl-, optionally substituted aryl-, optionally substituted heteroaryl-, optionally substituted heteroaryl-, optionally substituted heteroaryl-, optionally substituted heterocyclyl, -C(O)- R_6 , and -S(O)₂- R_{6a} ;

R₅ is chosen from hydrogen, optionally substituted alkyl-, optionally substituted aryl-, optionally substituted aralkyl-, optionally substituted heteroaralkyl-, and optionally substituted heterocyclyl-;

 R_6 is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted heteroaryl, R_7O - and R_{12} -NH-;

 R_{6a} is chosen from optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, optionally substituted heteroaralkyl, and R_{12} -NH-;

or R_5 taken together with R_3 , and the nitrogen to which they are bound, form an optionally substituted 5- to 12-membered nitrogen-containing heterocycle, which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring;

or R_5 taken together with R_2 form an optionally substituted 5- to 12-membered nitrogen-containing heterocycle, which optionally incorporates from one to two additional heteroatoms, selected from N, O, and S in the heterocycle ring;

R₇ is chosen from optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl;

R₁₂ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl, and optionally substituted heteroaralkyl; and

R₄ is chosen from hydrogen, optionally substituted alkyl, optionally substituted alkoxy, halogen, hydroxyl, nitro, cyano, optionally substituted amino, alkylsulfonyl, alkylsulfonamido, alkylthio, carboxyalkyl, aminocarbonyl, aryloxy, heteroaryloxy, optionally substituted N-heterocyclyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaryl;

a pharmaceutically acceptable salt of a compound of Formula I;

a pharmaceutically acceptable solvate of a compound of Formula I; or

a pharmaceutically acceptable solvate of a pharmaceutically acceptable salt of a compound of Formula I.

2. (Original) The compound of Claim 1 comprising one or more of the following:

T and T' are each a covalent bond;

 R_1 is selected from hydrogen, optionally substituted C_1 - C_4 alkyl, optionally substituted phenyl- C_1 - C_4 -alkyl-, optionally substituted naphthylmethyl, optionally substituted phenyl, and naphthyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen or optionally substituted C₁-C₄ alkyl;

 R_3 is -C(O)- R_6 or S(O)2- R_{6a} ;

R₄ is hydrogen, halo, hydroxyl, optionally substituted lower alkyl, optionally substituted aryl, alkoxy, cyano, substituted amino, carbamyl, aryloxy, heteroaryl, or optionally substituted N-heterocyclyl;

 R_6 is selected from optionally substituted C_1 - C_8 alkyl, optionally substituted aryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl, optionally substituted aryl, R_7 O- and R_{12} -NH-,

R_{6a} is selected from C₁-C₁₃ alkyl; phenyl; naphthyl; phenyl substituted with halo, lower alkyl, lower alkoxy, nitro, methylenedioxy, or trifluoromethyl; biphenylyl and heteroaryl;

R₇ is chosen from optionally substituted alkyl and optionally substituted aryl; R₁₂ is chosen from optionally substituted alkyl and optionally substituted aryl; and R₅ is chosen from hydrogen, optionally substituted C₁-C₁₃ alkyl, optionally substituted aryl, optionally substituted aryl-C₁-C₄-alkyl-, optionally substituted heterocyclyl, and optionally substituted heteroaryl-C₁-C₄-alkyl-.

3. (Original) The compound of Claim 2 comprising one or more of the following:

R₁ is naphthyl, phenyl, bromophenyl, chlorophenyl, methoxyphenyl, ethoxyphenyl, tolyl, dimethylphenyl, chorofluorophenyl, methylchlorophenyl, ethylphenyl, phenethyl, benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl, dimethoxybenzyl, or naphthylmethyl;

R₂, is hydrogen;

R₂ is optionally substituted C₁-C₄ alkyl;

 R_3 is $-C(O)R_6$;

 R_6 is chosen from phenyl; substituted phenyl; benzyl; phenoxymethyl-; halophenoxymethyl-; phenylvinyl-; heteroaryl-; substituted heteroaryl-; C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy-; and benzyloxymethyl-;

R₄ is chosen from hydrogen, hydroxyl, halo, optionally substituted lower alkyl, lower alkoxy, optionally substituted phenyl, and cyano;

 R_5 is selected from hydrogen, C_1 - C_4 alkyl; cyclohexyl; phenyl substituted with hydroxyl, C_1 - C_4 alkoxy or C_1 - C_4 alkyl; benzyl; and R_{11} -alkylene-; and

 R_{11} is hydroxyl, carboxy, $(C_1-C_4$ alkoxy)carbonyl-, $di(C_1-C_4$ alkyl)amino-, $(C_1-C_4$ alkoxy)carbonylamino-, C_1-C_4 alkoxy-, or optionally substituted N-heterocyclyl-.

4. (Original) The compound of Claim 3 comprising one or more of the following:
R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl,
hydroxybenzyl, or naphthylmethyl;

R₂ is chosen from methyl, ethyl, propyl, butyl, methylthioethyl, methylthiomethyl, aminobutyl, (CBZ)aminobutyl, cyclohexylmethyl, benzyloxymethyl, methylsulfinylmethyl, and hydroxymethyl;

R_{2'} is hydrogen;

R4 is optionally substituted methyl or optionally substituted phenyl;

R₆ is tolyl, halophenyl, methylhalophenyl, hydroxymethylphenyl,

halo(trifluoromethyl)phenyl-, methylenedioxyphenyl, formylphenyl or cyanophenyl; and

 R_5 is R_{11} -alkylene- wherein R_1 is amino, C_1 - C_4 alkylamino-, di(C_1 - C_4 alkyl)amino-, C_1 - C_4 alkoxy-, hydroxyl, or N-heterocyclyl.

5. (Original) The compound of Claim 4 comprising one or more of the following:

R₁ is benzyl;

R₂¹ is hydrogen;

R₂ is ethyl or propyl; and

R₅ is aminoethyl, aminopropyl, aminobutyl, aminopentyl, aminohexyl, methylaminoethyl, methylaminopropyl, methylaminobutyl, methylaminopentyl, methylaminopentyl, dimethylaminoethyl, dimethylaminopropyl, dimethylaminobutyl, dimethylaminopentyl, ethylaminoethyl, ethylaminopropyl, ethylaminobutyl, diethylaminobutyl, diethylaminopentyl, diethylaminopentyl, or diethylaminohexyl.

- 6. (Original) The compound of Claim 5 wherein R₂ is i-propyl
- 7. (Original) The compound of Claim 1 comprising one or more of the following:T and T' are each a covalent bond;

 R_1 is selected from hydrogen, optionally substituted C_1 - C_4 alkyl, optionally substituted phenyl- C_1 - C_4 -alkyl-, optionally substituted phenyl, and naphthyl.

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen or optionally substituted C₁-C₄ alkyl;

R₄ is hydrogen, halo, hydroxyl, optionally substituted lower alkyl, optionally substituted aryl, alkoxy, cyano, substituted amino, carbamyl, aryloxy, heteroaryl; or optionally substituted N-heterocyclyl;

 R_6 is selected from optionally substituted C_1 - C_8 alkyl, optionally substituted aryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl, optionally substituted aryl, R_7 O- and R_{12} -NH-,

R₇ is chosen from optionally substituted alkyl and optionally substituted aryl;

R₁₂ is chosen from optionally substituted alkyl and optionally substituted aryl; and

R₃ taken together with R₅ and the nitrogen to which they are bound, forms an optionally substituted imidazolyl ring of the formula:

$$R_8$$
 R_{10}
 R_{10}

wherein

R₈ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heteroaralkyl, and optionally substituted heteroaryl; and

 R_{9} and R_{10} are independently hydrogen, optionally substituted alkyl, optionally substituted aryl, or optionally substituted aralkyl.

8. (Original) The compound of Claim 7 comprising one or more of the following:

R₁ is chosen from naphthyl, phenyl, bromophenyl, chlorophenyl, methoxyphenyl, ethoxyphenyl, tolyl, dimethylphenyl, chorofluorophenyl, methylchlorophenyl, ethylphenyl, phenethyl, benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl, dimethoxybenzyl, or naphthylmethyl;

R₂' is hydrogen;

R₂ is optionally substituted C₁-C₄ alkyl;

 R_6 is chosen from phenyl; substituted phenyl; benzyl; phenoxymethyl-; halophenoxymethyl-; phenylvinyl-; heteroaryl-; substituted heteroaryl-; C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy-; and benzyloxymethyl-;

R₄ is chosen from hydrogen, hydroxyl, halo, optionally substituted lower alkyl, lower alkoxy, optionally substituted phenyl, and cyano; and

R₈ is aryl, substituted aryl, aralkyl, heteroaryl, substituted heteroaryl, heteroaralkyl, substituted aralkyl, or substituted heteroaralkyl.

9. (Original) The compound of Claim 1 comprising one or more of the following:T and T' are each a covalent bond;

 R_1 is selected from hydrogen, optionally substituted C_1 - C_4 alkyl, optionally substituted phenyl- C_1 - C_4 -alkyl-, optionally substituted naphthylmethyl, optionally substituted phenyl, and naphthyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen or optionally substituted C₁-C₄ alkyl;

R₄ is hydrogen, halo, hydroxyl, optionally substituted lower alkyl, optionally substituted aryl, alkoxy, cyano, substituted amino, carbamyl, aryloxy, heteroaryloxy, heteroaryl, or optionally substituted N-heterocyclyl;

 R_6 is selected from optionally substituted C_1 - C_8 alkyl, optionally substituted aryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl- C_1 - C_4 -alkyl-, optionally substituted heteroaryl, optionally substituted aryl, R_7 O- and R_{12} -NH-,

R₇ is chosen from optionally substituted alkyl and optionally substituted aryl;

R₁₂ is chosen from optionally substituted alkyl and optionally substituted aryl; and

R₃ taken together with R₅ and the nitrogen to which they are bound, forms an optionally substituted imidazolinyl ring of the formula:

$$R_8$$
 R_{10}
 R_{10}
 R_{10}
 R_{10}

wherein,

R₈ is chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, optionally substituted heteroaralkyl, arid optionally substituted heteroaryl; and

 R_9 , $R_{9'}$, R_{10} , and $R_{10'}$ are independently chosen from hydrogen, optionally substituted alkyl, optionally substituted aryl, and optionally substituted aralkyl.

10. (Original) The compound of Claim 9 comprising one or more of the following:

R₁ is chosen from naphthyl, phenyl, bromophenyl, chlorophenyl, methoxyphenyl, ethoxyphenyl, tolyl, dimethylphenyl, chorofluorophenyl, methylchlorophenyl, ethylphenyl, phenethyl, benzyl, chlorobenzyl, methylbenzyl, methoxybenzyl, cyanobenzyl, hydroxybenzyl, dichlorobenzyl, dimethoxybenzyl, or naphthylmethyl;

R₂, is hydrogen;

 R_2 is optionally substituted C_1 - C_4 alkyl;

 R_6 is chosen from phenyl; substituted phenyl; benzyl; phenoxymethyl-; halophenoxymethyl-; phenylvinyl-; heteroaryl-; substituted heteroaryl-; C_1 - C_4 alkyl substituted with C_1 - C_4 alkoxy-; and benzyloxymethyl-;

R₄ is chosen from hydrogen, hydroxyl, halo, optionally substituted lower alkyl, lower alkoxy, optionally substituted phenyl, and cyano;

R₈ is aryl, substituted aryl, aralkyl, heteroaryl, substituted heteroaryl, heteroaralkyl, substituted aralkyl, or substituted heteroaralkyl; and

 R_9 , $R_{9'}$, R_{10} , and $R_{10'}$ are independently selected from the group consisting of hydrogen and optionally substituted lower alkyl.

11. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R₂, is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl;

R₃ is hydrogen; and

R₅ is hydrogen.

12. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

 R_2 is optionally substituted C_1 - C_4 alkyl;

R₂, is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl;

 R_3 is $-C(O)R_6$;

R₆ is optionally substituted phenyl; and

R₅ is optionally substituted alkyl.

13. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl;

R₃ is optionally substituted phenyl, heterocyclyl, or naphthyl; and

R₅ is optionally substituted alkyl.

14. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl; and R₃ and R₅ taken together form an optionally substituted imidazolinyl ring.

15. (Original) The compound of Claim 1 wherein

T and T' are absent;

 R_1 is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R₂['] is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl; and

 R_3 taken together with R_5 form an optionally substituted imidazolyl ring.

16. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen;

 R_4 is optionally substituted methyl or optionally substituted phenyl; and R_3 and R_5 taken together form an optionally substituted imidazolidinyl ring.

17. (Original) The compound of Claim 1 wherein

T and T' are absent;

 R_1 is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen;

 R_4 is optionally substituted methyl or optionally substituted phenyl; and R_3 and R_5 taken together form an optionally substituted piperazinyl ring.

18. (Original) The compound of Claim 1 wherein

T and T' are absent;

 R_1 is benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R_{2'} is hydrogen;

 $R_{4}\/$ is optionally substituted methyl or optionally substituted phenyl; and

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R₃ and R₅ taken together form an optionally substituted diazepinoyl ring.

19. (Original) The compound of Claim 1 wherein

T and T' are absent;

R₁ is most preferably chosen from benzyl, halobenzyl, methylbenzyl, methoxylbenzyl, cyanobenzyl, hydroxybenzyl, or naphthylmethyl;

R₂ is optionally substituted C₁-C₄ alkyl;

R₂¹ is hydrogen;

R₄ is optionally substituted methyl or optionally substituted phenyl;

R₅ is optionally substituted alkyl;

R₃ is-SO₂R_{6a}, and

R_{6a} is substituted phenyl or naphthyl.

- 20. (Currently Amended) The compound of <u>Claim 1</u> any of the above claims wherein the stereogenic center to which R₂ and R₂ is attached is of the R configuration.
- 21. (Currently Amended) A pharmaceutical composition comprising a pharmaceutical excipient and a therapeutically effective amount of a compound of <u>Claim</u> 1 any of Claims 1-19.
- 22. (Currently Amended) A method of treatment comprising administering an effective amount of a compound of Claim 1 any of Claims 1-19 to a patient suffering from a cellular proliferative disease.

- 23. (Original) The method of Claim 22 wherein the cellular proliferative disease is cancer, hyperplasia, restenosis, cardiac hypertrophy, an immune disorder or inflammation.
- 24. (Original) A method of treatment for a cellular proliferative disease comprising administering to a patient suffering therefrom a compound of Claim 1 in an amount sufficient to modulate KSP kinesin activity in cells affected with the disease.
- 25. (Currently Amended) A kit comprising a compound of <u>Claim 1</u> any of <u>Claims 1</u>19 and a package insert or other labeling including directions for treating a cellular proliferative disease by administering an effective amount of said compound.